

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-12-26-07 Date: 29-12-17
 Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
 Address : Shettyhalli Sub Division, BBMP, Bangalore.
 Project Name : Improvements to roads and drains of Chikkasandra Janatha colony cross roads in ward no.12 Shettyhalli in Shettyhalli sub division.
 Agency : M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
 Customer's Reference : EE/DD/LOA/1479/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 26-12-17
 Sample ID No : 2017-12-26-07/01
 Sample Type : ACC 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
 IS 4031 (Part 1,2,3,4,5, 6,11):1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
 Date of test : 27-12-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.13	—
2	Fineness by Air permeability method (m ² /kg, Min)	288.6	225m ² /kg, Min
3	Density (gm/cc)	3.13	—
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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ಆರೋಗ್ಯಕರ ಕಾರ್ಯವಿಧಾನದ ಅಭಿವೃದ್ಧಿ
 ಶಿಕ್ಷಣ, ಉಪವಿಭಾಗ, ವಾಸವು, ಮುಖ್ಯ
 ಬೃಹತ್ ಮಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
 ಮು.ವಿ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಮಂಗಳೂರು



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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-12-26-07 **Date:** 24-01-18
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Chikkasandra Janatha colony cross roads in ward no.12 Shettyhalli in Shettyhalli sub division.
Agency : M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
Customer's Reference : EE/DD/LOA/1479/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-12-17
Sample ID No : 2017-12-26-07/01
Sample Type : ACC 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 27-12-17

Compressive Strength			
SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	37.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	55.5N/mm ²	Not less than 53 N/mm ²

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ಶಿವಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಮಾ.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ



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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-12-26-07 Date: 29-12-17
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Chikkasandra Janatha colony cross roads in ward no.12 Shettyhalli in Shettyhalli sub division.
Agency : M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
Customer's Reference : EE/DD/LOA/1479/2017-18
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 26-12-17
Sample ID No : 2017-12-26-07/02(a)
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 26-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken		:	15000	grams		
Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	820	820	5.5	94.5	90-100
3	20 mm	5278	6098	40.7	59.3	30-70
4	10 mm	4532	10630	70.9	29.1	10-35
5	4.75 mm	4190	14820	98.8	1.2	0-5
6	Pan	180	15000	100.0	0	---

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Certificate No.: TC-5548

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-12-26-07 Date: 30-12-17
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Chikkasandra Janatha colony cross roads in ward no.12 Shettyhalli in Shettyhalli sub division.
Agency : M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
Customer Reference : EE/DD/LOA/1479/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-12-17
Sample ID No : 2017-12-26-07/02(b)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 27-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken		5000 grams				
Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	-

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-12-26-07 Date: 30-12-17
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Chikkasandra Janatha colony cross roads in ward no.12 Shettyhalli in Shettyhalli sub division.
Agency : M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
Customer's Reference : EE/DD/LOA/1479/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-12-17
Sample ID No : 2017-12-26-07/03
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 27-12-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	133	217	21.7	78.3	60-95	75-100	85-100	95-100
4	1.18 mm	186	403	40.3	59.7	30-70	55-90	75-100	90-100
5	600 micron	178	581	58.1	41.9	15-34	35-59	60-79	80-100
6	300 micron	215	796	79.6	20.4	5-20	8-30	12-40	15-50
7	150 micron	144	940	94.0	6.0	0-10	0-10	0-10	0-15
8	Pan	60	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-12-26-07
Sample ID No : 2017-12-26-07/03

Date: 30-12-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.95	—
2	Specific Gravity	2.56	—
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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AE
R

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ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಜಿ.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು



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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2018-01-02-04
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Chikkasandra Janatha colony cross roads in ward no.12 Shettyhalli in Shettyhalli sub division.
Agency : M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
Customer's Reference : EE/DD/LOA/1479/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 02-01-18
Sample ID No : 2018-01-02-04/01
Sample Type : Indus
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test : 03-01-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Indus	Fe500	10	0.615	542	672	20.0%	Satisfactory	Satisfactory
2	Indus	Fe500	12	0.887	568	685	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

Lab ID : CP-2018-01-02-04
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Chikkasandra Janatha colony cross roads in ward no.12 Shettyhalli in Shettyhalli sub division.
Agency : M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
Customer's Reference : EE/DD/LOA/1479/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 02-01-18
Sample ID No : 2018-01-02-04/02
Sample Type /Size : Precast Cover Slab
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test : 02/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.49	100.51	1.315	4475	73.0	16.3	15.2	19.0
2	Cover Slab-2	75.51	100.48	1.328	4477	75.9	17.0	15.8	19.7
3	Cover Slab-3	75.52	100.52	1.375	4478	72.4	16.2	15.0	18.8

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4, 7TH MAIN MALLESWARAM, BANGALORE -3



Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-01-13-06
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Chikkasandra Janatha colony cross roads in ward no.12 Shettyhalli in Shettyhalli sub division.
Agency : M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
Customer's Reference : EE/DD/LOA/1479/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-01-18
Sample ID No : 2018-01-13-06/01
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 16/01/2018

Date of test : 16/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	09/01/2018	16/01/2018	150.22 X 150.24 X 150.23	22569	8.233	395.0	17.5	17.5
2	Drain Concrete	M20	09/01/2018	16/01/2018	150.11 X 150.14 X 150.15	22538	8.234	398.9	17.7	
3	Drain Concrete	M20	09/01/2018	16/01/2018	150.12 X 150.21 X 150.19	22550	8.276	390.1	17.3	

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ಶಿಕ್ಷಣ ಉಪನಿರ್ದೇಶಕರು, ದಾಖಲೆ
ಇ. ಸ. ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು



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